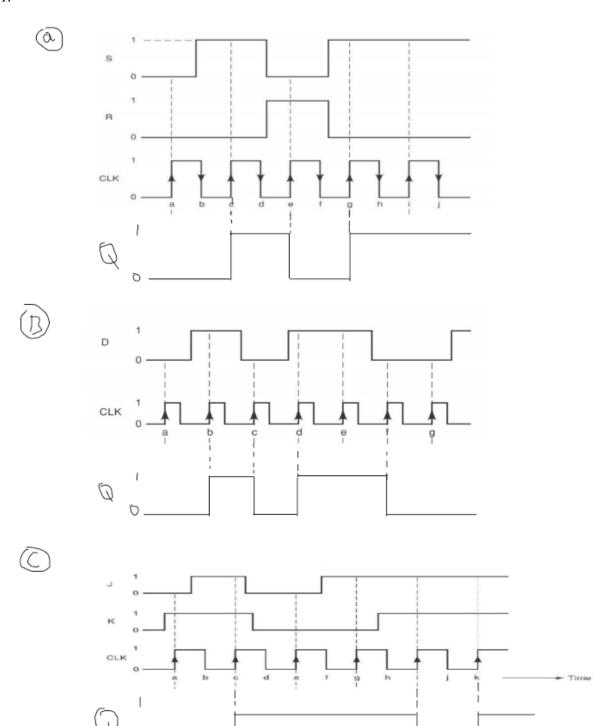
Nama : Rivo Juicer Wowor

t\_

Kelas : CE232-C

1.

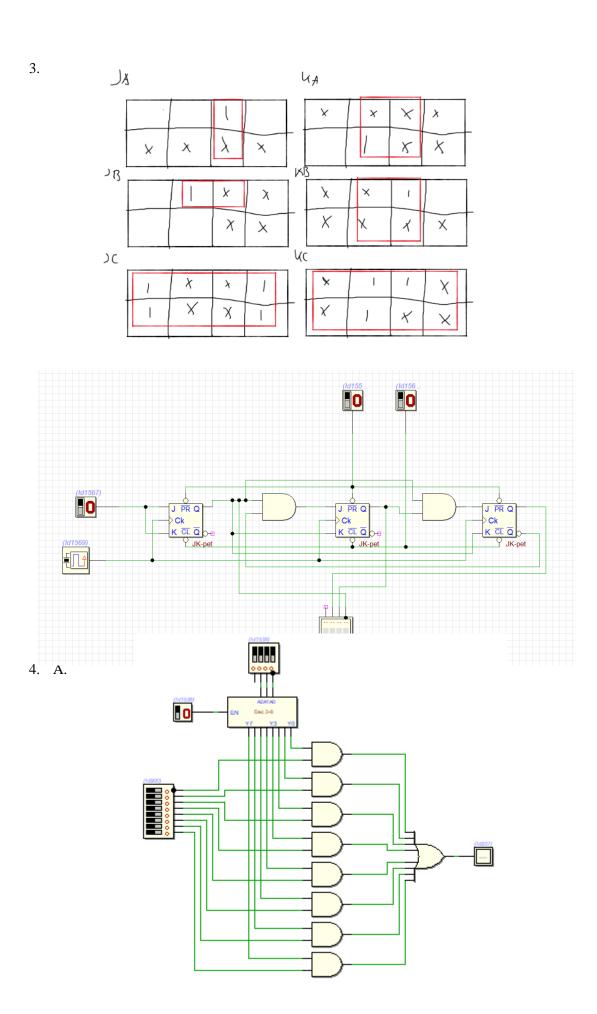


2.

Besent	Input	Nex t
1	001	100

Besent	Input	Nex t
000000000000000000000000000000000000000	00000000000000000000000000000000000000	000000000000000000000000000000000000000

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000	000000000000000000000000000000000000000	00 11 00 11 00 11 00 11 00 11	111100000	001 010 011 000 011 100 011		



B.

		Inp	out		Output							
Decimal	Α	В	С	D	а	b	С	d	е	f	g	Display Pattern
0	0	0	0	0	1	1	1	1	1	1	0	0
1	0	0	0	1	0	1	1	0	0	0	0	1
2	0	0	1	0	1	1	0	1	1	0	1	2
3	0	0	1	1	1	1	1	1	0	0	1	3
4	0	1	0	0	0	1	1	0	0	1	1	4
5	0	1	0	1	1	0	1	1	0	1	1	5
6	0	1	1	0	1	0	1	1	1	1	1	6
7	0	1	1	1	1	1	1	0	0	0	0	7
8	1	0	0	0	1	1	1	1	1	1	1	8
9	1	0	0	1	1	1	1	1	0	1	1	9

5. A.

Present State	Next	State	Output		
	X = 0 X = 1		X = 0	X = 1	
Α	Α	В	0	0	
В	С	D	0	0	
С	Α	D	0	0	
D	Е	F	0	1	
E	Α	F	0	1	
F	G	F	0	1	
G	Α	F	0	1	

В.

C.

6.	From	the	output	Decoder	Determine	
	Α			0 000	01	<= A'B'C'D'E'
				1 000	01	
				2 000	10	
				3 000	11	
				15 011	11	
				16 100	00	<= AB'C'D'E'
				17 100	01	
				28 111	00	<= ABCD'E'
				29 111	01	
				32 111	11	

C. 
$$Q0 = A + B D' + C D' + D$$
  
 $Q2 = AB'C + 0 + 0 + 0$